

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: March 1, 2001, 15:47:19 ; Search time 210.42 Seconds
(without alignments)
9.750 Million cell updates/sec

Title: US-09-331-631a-7_COPY_81_140
Perfect score: 342
Sequence: 1 LORYYQCGGRCOEQOQGR.....HENYHNHKKRSEEGQGR 60

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 268485 seqs, 34193795 residues

Total number of hits satisfying chosen parameters: 268485

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 08
Maximum Match 100%
Listing first 45 summaries

Database :

A_Geneseq_36.*
1: /SIDSI/gcgdata/geneseq/geneseq/AA1980.DAT.*
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20: /SIDSI/gcgdata/geneseq/geneseq/AA1999.DAT.*
21: /SIDSI/gcgdata/geneseq/geneseq/AA2000.DAT.*

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	342	100.0	525	19	Theobroma cacao an
2	342	100.0	566	13	Sequence encoded b
3	133	38.9	590	19	Gossypium hirsutum
4	130.5	38.2	666	19	Macadamia integrif
5	127.5	37.3	625	19	Macadamia integrif
6	126.5	37.0	666	19	Macadamia integrif
7	92	26.9	2074	21	Amino acid sequenc
8	87	25.4	482	20	Renal cancer assoc
9	86.5	25.3	395	17	Mouse SRV-related
10	86	25.1	2023	21	Amino acid sequenc
11	85.5	25.0	611	20	T. gondii immunoge
12	84.5	24.7	86	20	GST-HD fusion prot

13	84.5	24.7	86	20	W95078
14	84.5	24.7	94	20	W95075
15	84.5	24.7	94	20	W95080
16	83.5	24.4	919	10	P93109
17	83.5	24.4	919	18	W14783
18	83.5	24.4	919	21	Y78914
19	82	24.0	28	19	W62841
20	82	24.0	910	20	W22191
21	81	23.7	371	20	W73369
22	81	23.7	593	19	W62835
23	81	23.7	1162	21	Y58500
24	80	23.4	562	16	R70491
25	80	23.4	1898	20	Y30795
26	78.5	23.0	360	17	W03627
27	76	22.2	637	19	W62837
28	76	22.2	1326	20	W55933
29	75	21.9	1178	18	W30763
30	74.5	21.8	326	20	Y20109
31	74.5	21.8	347	20	Y20108
32	74.5	21.8	616	20	Y32013
33	74	21.6	108	20	W95071
34	74	21.6	108	20	W95076
35	73.5	21.5	542	14	R38746
36	73.5	21.5	542	19	W39214
37	73.5	21.5	1299	21	Y58633
38	72.5	21.2	409	20	W90342
39	72.5	21.2	489	20	W90341
40	72.5	21.2	1297	20	Y55932
41	72.5	21.2	1447	20	W81029
42	72	21.1	154	20	Y33504
43	72	21.1	444	20	W90340
44	72	21.1	521	19	W74802
45	72	21.1	524	20	W90339

ALIGNMENTS

RESULT	ID	Score	Query Match	Length	ID	Description
1	W62831	342	100.0	525	19	Theobroma cacao an
2	W62831	342	100.0	566	13	Sequence encoded b
3	W62831	133	38.9	590	19	Gossypium hirsutum
4	W62831	130.5	38.2	666	19	Macadamia integrif
5	W62831	127.5	37.3	625	19	Macadamia integrif
6	W62831	126.5	37.0	666	19	Macadamia integrif
7	W62831	92	26.9	2074	21	Amino acid sequenc
8	W62831	87	25.4	482	20	Renal cancer assoc
9	W62831	86.5	25.3	395	17	Mouse SRV-related
10	W62831	86	25.1	2023	21	Amino acid sequenc
11	W62831	85.5	25.0	611	20	T. gondii immunoge
12	W62831	84.5	24.7	86	20	GST-HD fusion prot

GST-HD fusion prot
GST-HD fusion prot
GST-HD fusion prot
Human androgen rec
Androgen receptor.
Human androgen rec
Stenocarpus sinuat
Mouse brain CNG-1
Epilope tagged TBP
Zea mays antimicro
HHV8 ORF 73 protei
Leucocytozoan prot
A human trichohyal
Human follicle sti
Hordium vulgare an
Human ZC3 protein.
Mannose-1-phosphat
B. burgdorferi ant
B. burgdorferi ant
Drosophila melanog
Amino acid sequenc
fysSRP. Saccharom
S. cerevisiae SSRP
Protein regulating
G. max truncated S
G. max SBP2 protei
Human ZC2 protei
Human pcip protei
Human unliganded a
G. max truncated S
Human secreted pro
G. max SBP1 protei

XX 22-DEC-1997; 97WO-AU00874.
XX PR 20-DEC-1996; 96AU-0004275.
XX (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
XX PA Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
XX WPI: 1998-377279/32.
XX DR N-PSDB; V42311.
XX PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
XX useful for controlling microbial infestations of plants or mammals
XX
XX PS Claim 1; Page 39-41; 96pp; English.
XX CC The sequence is that of an antimicrobial protein which can
XX be used to control microbial infestations in plants and mammalian
XX animals.
XX CC
XX SQ Sequence 666 AA;

Query Match 38.2%; Score 130.5; DB 19; Length 666;
Best Local Similarity 34.3%; Pred. No. 1.5e-06;
Matches 24; Conservative 12; Mismatches 23; Indels 11; Gaps 1;

OY 2 QROYOOCGCGRCQGGQGGQRCORRC-----WEQYKEQERGHENYHNHKKN 50
Db 123 qgqyegqecrqhpeprimqcgqrcerryekkrkqkryeqqredekyyeermke 182
OY 51 RSEEEGQQR 60
: : : : :
Db 183 ednkrdpqr 192

RESULT 5
W62830 ID W62830 standard; Protein; 625 AA.
XX AC W62830;
XX DT 27-OCT-1998 (first entry)
XX DE Macadamia integrifolia antimicrobial protein.
XX KM antimicrobial protein; infestation; control.
XX OS Macadamia integrifolia.
XX FH Key Location/Qualifiers
FH Peptide 1..28 /note= "signal peptide"
FT Protein 29..666 /note= "mature protein"
FT
XX W09827805-A1.
XX PD 02-JUL-1998.
XX PF 22-DEC-1997; 97WO-AU00874.
XX PR 20-DEC-1996; 96AU-0004275.
XX PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
XX PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
XX WPI: 1998-377279/32.
XX DR N-PSDB; V42316.
XX PT Novel anti-microbial protein from e.g. Macadamia integrifolia -

PT useful for controlling microbial infestations of plants or mammals
XX PS Claim 1; Page 43-45; 96pp; English.
XX CC The sequence is that of an antimicrobial protein which can
XX be used to control microbial infestations in plants and mammalian
XX animals.
XX CC
XX SQ Sequence 625 AA;

Query Match 37.3%; Score 127.5; DB 19; Length 625;
Best Local Similarity 34.3%; Pred. No. 3e-06;
Matches 24; Conservative 13; Mismatches 22; Indels 11; Gaps 1;

OY 2 QROYOOCGCGRCQGGQGGQRCORRC-----WEQYKEQERGHENYHNHKKN 50
Db 82 qgqyegqecrqhpeprimqcgqrcerryekkrkqkryeqqredekyyeermke 141
OY 51 RSEEEGQQR 60
: : : : :
Db 142 gdnkrdpqr 151

RESULT 6
W62828 ID W62828 standard; Protein; 666 AA.
XX AC W62828;
XX DT 27-OCT-1998 (first entry)
XX DE Macadamia integrifolia antimicrobial protein.
XX KM antimicrobial protein; infestation; control.
XX OS Macadamia integrifolia.
XX FH Key Location/Qualifiers
FH Peptide 1..28 /note= "signal peptide"
FT Protein 29..666 /note= "mature protein"
FT
XX W09827805-A1.
XX PD 02-JUL-1998.
XX PF 22-DEC-1997; 97WO-AU00874.
XX PR 20-DEC-1996; 96AU-0004275.
XX PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
XX PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
XX WPI: 1998-377279/32.
XX DR N-PSDB; V42310.
XX PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
XX useful for controlling microbial infestations of plants or mammals
XX
XX PS Claim 1; Page 34-36; 96pp; English.
XX CC The sequence is that of an antimicrobial protein which can
XX be used to control microbial infestations in plants and mammalian
XX animals.
XX CC
XX SQ Sequence 666 AA;

Query Match 37.0%; Score 126.5; DB 19; Length 666;
Best Local Similarity 32.9%; Pred. No. 4.2e-06;

Matches	23, Conservative	13, Mismatches	23, Indels	11, Gaps
OY	2	0	0	0
Db	123	949	949	182
OY	51	51	51	51
Db	183	183	183	183

RESULT	7	
Y54319		
ID	Y54319	standard. Protein; 2074 AA.
XX		
AC	Y54319;	
XX		
DT	06-APR-2000	(first entry)
XX		
DE		Amino acid sequence of a murine PCTG4 protein.
XX		
KW		Human; PCTG4 region; X chromosome; q13 region; polymorphism;
KW		mental retardation; autism; depression; bipolar affective disorder;
KW		hypothyroidism; OPA gene; neuropsychiatric disorder.
XX		
OS	Mus sp.	
XX		
PN	MO955915-A2.	
XX		
PD	04-NOV-1999.	
XX		
PF	29-APR-1999;	99MO-US09365.
XX		
PR	29-APR-1998;	98US-0083465.
XX		
PA	(USSH) US DEPT HEALTH & HUMAN SERVICES.	
PA	(IOWA) UNIV IOWA RES FOUND.	
XX		
PI	Philbert RA, Gims EI;	
DR	WPI; 2000-126357/11.	
XX		
PT	Identification of polymorphisms in the PCTG4 region of Xq13 for	
PT	diagnosing mental retardation or autism -	
XX		
PS	Example 7; Page 81-84; 100pp; English.	
XX		
CC	The present sequence represents a murine PCTG4 protein. Polymorphisms	
CC	in the human PCTG4 region of chromosome Xq13 are associated with	
CC	mental retardation, autism, depression, bipolar affective disorder or	
CC	hypothyroidism. One 12 bp insertion polymorphism occurs within the	
CC	coding region of the human OPA gene, and introduces a 4 amino acid	
CC	insertion in a putative OPA domain. This domain has been shown to be	
CC	involved in tissue specific expression. Another polymorphism consists	
CC	of a pentanucleotide repeat approximately 7 kb upstream of the 12 bp	
CC	polymorphism. Another polymorphism consists of a dinucleotide repeat	
CC	approximately 4.5 kb downstream of the 12 bp polymorphism. The	
CC	specification describes a method for screening for polymorphisms in a	
CC	PCTG4 nucleic acid sequence obtained from a subject. The PCTG4 related	
CC	sequences within the q13 region of the X chromosome have polymorphisms	
CC	associated with neuropsychiatric disorders. The methods can be used to	
CC	screen for the presence of a heritably linked form of mental retardation,	
CC	autism, depression, bipolar affective disorder or hypothyroidism.	
XX		
XX		
Sequence	2074 AA;	
90		

Query Match	26.9%	Score 92;	DB 21;	Length 2074;
Best Local Similarity	30.5%;	Pred. No. 0.073;		
Matches 18; Conservative 21; Mismatches 20; Indels 0; Gaps 0;				
OY	2	OQYOOCGRCDEOOGGREDDCCORRCKWEQYKEDERGHENYHNHKKNRSEEEQQQR	60	
	: : :	: : : : :	:	: : : : :

Db 1942 qqgqqqgqqqgqqqgqqqgqqqgqhllrqgqqqqqlrrgqqqqqqqqqq 2000

RESULT 8
Y07067
ID Y07067 standard; Protein; 482 AA.

AC	XX	
AD	XX	Y0706/;
DT	XX	02-JUL-1999 (first entry)
DE	XX	Renal cancer associated antigen precursor sequence.
KW	XX	Cancer associated antigen; diagnosis; research; treatment; human; breast cancer; colon cancer; gastric cancer; renal cancer; lung cancer; prostate cancer.
OS	XX	Homo sapiens.
PN	XX	WO9904265-A2.
PD	XX	28-JAN-1999.
PF	XX	15-JUL-1998; 98MO-US14679.
PR	XX	22-JUN-1998; 98US-0102322. 17-JUL-1997; 97US-0896164. 10-OCT-1997; 97US-0061599. 10-OCT-1997; 97US-0061765. 10-OCT-1997; 97US-0948705. 11-OCT-1997; 97GB-0021697.
PA	XX	(LUDW-) LUDWIG INSTN CANCER RES.
PI	XX	Chen Y, Gout I, Gure A, O'Hare M, Obata Y, Old LJ; Pfrendeschuh M, Sahin U, Scanlan MJ, Stockert E; Tureci O.
PT	XX	WPt; 1999-132448/11.
PT	XX	New isolated cancer associated nucleic acids and polypeptides - isolated using sera from cancer patients, used to develop products for the diagnosis, monitoring or treatment of cancers
PS	XX	Disclosure; Page 467-468; 787pp; English.
CC	XX	The invention relates to a method for diagnosing a disorder characterised by expression of a human cancer associated antigen precursor coded for by a nucleic acid molecule (NAM). The method comprises: (a) contacting a biological sample isolated from a subject with an agent that specifically binds to the NAM, an expression product or a fragment of an expression product complexed with an HLA molecule; and (b) determining the interaction between the agent and the NAM or the expression product as a determination of the disorder. The products and methods can be used in the diagnosis, monitoring, research, or treatment of conditions characterised by the expression of various cancer associated antigens. The invention provides nucleic acid sequences and encoded polypeptides which are cancer associated antigen precursors expressed in human breast cancer, renal cancer, colon cancer, gastric cancer, prostate cancer and lung cancer.
Sequence	482 AA:	

```

Query Match      25.4%: Score 87; DB 20; Length 482;
Best Local Similarity 25.4%: Pred. No. 0.054;
Matches 15; Conservative 22; Mismatches 2; Indels 0; Gaps 0;

2  QROYOOCGRCEODGOREDOCCRCMKCEQYKEQREGENHYNNHKKNRSEEEQOOR 60
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
80  QKAGEEFLIKKEEAAKKRQEGERKTLKEGAEQGRKREEEEGKTRGKQKKEAALGR 138
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

	RESULT	9	
W03474	ID	W03474 standard; Protein: 395 AA.	
XX AC			
XX W03474:			
XX XX			
DT 23-OCT-1996	(first entry)		
XX DE			
DE Mouse SRY-related protein.			
XX KW			
KV Mouse; SRY primer: PCR; polymerase chain reaction; amplification; probe;			
XN HMG box; human; bovine; sex; animal; birth.			
XX OS			
Mus musculus.			
XX PN			
JP08154685-A.			
XX PD			
PD 18-JUN-1996.			
XX PF			
Pf 30-NOV-1994; 94JP-0319525.			
XX PR			
PR 30-NOV-1994; 94JP-0319525.			
XX PA			
(KACH-) KACHIKU JUSEIRAN ISHOKU GIKUTSU KENKYUKU.			
DR WP1: 1996-336575/34.			
DR N-PSDB: T33007.			
XX PT			
PT Bovine and mouse Sry-related DNA - useful for detecting e.g. the sex			
XX PP			
PP of unborn animals			
XX PS			
PS Claim 1: Page 10-14; 21pp; Japanese.			
CC CC			
This is the amino acid sequence of a mouse SRY-related protein. The gene			
by primers T33009-10 as a probe. The screen isolated 4 EcoRI fragments			
of 2.3, 2.8, 3.5 and 1.5 kb covering the gene. Sequence analysis revealed			
a 240 bp HMG box sequence between bases 7154-7393. Similarity with the			
human SRY HMG box sequence resulted in primers being generated to amplify			
the human SRY HMG box sequence for use as a probe to isolate the bovine			
SRY-related gene (T33008). The mouse and bovine genes are useful for			
determining the sex of an animal prior to birth.			
CC CC			
Sequence 395 AA:			
SO			
Query Match	25.3%; Score 86.5; DR 17; Length 395;		
Best Local Similarity	27.0%; Pred.No.0.049; Mismatches		
Matches 17; Conservative 21; Indels 5; Gaps 1			
OY 3 ROYOQOCGRCRQQOQGROFOQC-----ORAKWEQCKEEDRGHEHYHNHKMRSEEEEG 57			
: : : :	:	:	:
Dd 160 gqgqqgfhdhgqggqggqghdhngkgekdnhdgqggqrfdhhhhhbgqdffndhg 219			
OY 58 QGR 60			
:: ::			
Dd 220 qgq 222			
RESULT 10			
T54320			
ID Y54320 standard; Protein: 2023 AA.			
XX AC			
AC Y54320:			
DT 06-APR-2000	(First entry)		
XX DE			
Amino acid sequence of a human PCrG4 protein.			
XX XN			
Human: PCrG4 region; X chromosome; q13 region; polymorphism;			
KM mental retardation; autism; depression; bipolar affective disorder;			
KX hypothyroidism; OPA gene; neuropsychiatric disorder.			
XX			

OS	Homo sapiens.
XX	
PN	W09955915-A2.
XX	
PD	04-NOV-1999.
XX	
PF	29-APR-1999; 99WO-US09365.
XX	
PR	29-APR-1998; 98US-0083465.
XX	
PA	(USSH) US DEPT HEALTH & HUMAN SERVICES.
PA	(IOWA) UNIV IOWA RES FOUND.
XX	
PI	Philibert RA, Gims EI;
XX	
DR	WPt; 2000-126357/11.
XX	
PT	Identification of polymorphisms in the PCTG4 region of Xq13 for
XX	diagnosing mental retardation or autism -
XX	
PS	Example 7: Page 81-84; 100pp; English.
XX	
CC	The present sequence represents a human PCTG4 protein. Polymorphisms
CC	in the human PCTG4 region of chromosome Xq13 are associated with
CC	mental retardation, autism, depression, bipolar affective disorder or
CC	hypothyroidism. One 12 bp insertion polymorphism occurs within the
CC	coding region of the human OPA gene, and introduces a 4 amino acid
CC	insertion in a putative OPA domain. This domain has been shown to be
CC	involved in tissue specific expression. Another polymorphism consists
CC	of a pentanucleotide repeat approximately 7 kb upstream of the 12 bp
CC	polymorphism. Another polymorphisms consists of a dinucleotide repeat
CC	approximately 4.5 kb downstream of the 12 bp polymorphism. The
CC	specification describes a method for screening for polymorphisms in a
CC	PCTG4 nucleic acid sequence obtained from a subject. The PCTG4 related
CC	sequences within the q13 region of the x chromosome have polymorphisms
CC	associated with neuropsychiatric disorders. The methods can be used to
CC	screen for the presence of a heritably linked form of mental retardation,
CC	autism, depression, bipolar affective disorder or hypothyroidism.
XX	
SO	Sequence 2023 AA;
Query Match	25.1%; Score 86; DB 21; Length 2023;
Best Local Similarity	30.5%; Pred. No. 0.32;
Matches 18; Conservative 18; Mismatches 23; Indels 0; Gaps 0	
OY	2 ORQYOCCGCCOEOOGOCREDOCCORCKMEQYKEDBERGEHENYHNNKKNRSEEEGCQR 60 : : : : : : : : : : :
Dd	1899 gqqgqqgqqgqqgqqgqqgqqgqqyhlrqqgqqqlrlcqqgqqgqqgqqgqqgqqgqq 1957
RESULT 11	
ID Y29039	standard; Protein: 611 AA.
XX Y29039;	
AC Y29039;	
XX	
DT 24-SEP-1999	(first entry)
XX	
DE T. gondii immunogenic protein.	
XX	
KW Immunogenic protein; Toxoplasma gondii protein; oocyst shedding; cat;	
KW T. gondii infection; enteric apicomplexa oocyst; Cryptosporidium oocyst;	
KM Toxoplasma oocyst.	
XX	
OS Toxoplasma gondii.	
XX	
FN W09932633-A1.	
XX	
PD 01-JUL-1999.	
XX	
PF 18-DEC-1998; 98WO-US27137.	
XX	

[illegible]

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XX PA      (PLAC ) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.
XX PI      Bates G, Lehnach H, Scherzinger E, Manker E;
XX DR      MPI, 1999-153955/L3.
XX XX
XX PR      Detecting amyloid-like fibrils or protein aggregates insoluble in
PT detergent or urea - from their retention on a filter, used for
PR diagnosis, particularly of diseases associated with polyglutamine
PT expansion
XX PS
PS Disclosure: Fig 8: 56pp: English.
XX XX
XX CC      The invention relates to the detection of amyloid-like fibrils or protein
CC aggregates, insoluble in detergents or urea. The method comprises: (a)
CC applying material suspected of containing protein aggregates to a filter;
CC and (b) detecting retention of protein aggregates on the filter. This
CC method also helps to identify inhibitors of protein aggregates formation.
CC The method is particularly used to detect protein aggregates that are
CC indicative of disease, for assessing onset or progression of the
CC diseases. The inhibitors identified are potential therapeutic agents for
CC treating the diseases. Other applications include detection of inclusion
CC bodies in bacteria and to study kinetics of aggregate formation. Diseases
CC associated with polyglutamine expansion are particularly diagnosed, e.g.
CC Huntington's, Alzheimer's or Parkinson's diseases; spinal and bulbar
CC muscular atrophy; spinocerebellar ataxia; systemic amyloidosis; type II
CC diabetes; bovine spongiform encephalopathy; kuru; familial insomnia;
CC scrapie. The protein aggregates can now be detected simply, routinely and
CC rapidly, without requiring sophisticated equipment. The method can be
CC made quantitative, by analysing a series of dilutions, and can be
CC automated to allow many samples to be analysed on the same filter.
CC Sequences W95072-75 represent GST-HD fusion proteins.
XX SC
SC Sequence    94 AA:
SQ
SQ
Query Match                      24.7% Score 84.5 DB 20 Length 94:
Best Local Similarity   28.1%; Pred. No. 0.018;
Matches 16; Conservative 21; Mismatches 17; Indels 3; Gaps 1
OY       3 ROYOOCGGRCDQDGRRQQCCKRKMVQLDEQGEGHENTHNHKKNSEEEGGO 59
          :::||| |::||| |::||| ||::| ::::| ::::| ::::| ::::|
DB       22 KSLGQGL---qqqgggggggggggggggggggggggggggggggggggggg 75

RESULT 15
W95080
ID ID     W95080 standard; Protein: 94 AA.
XX AC
XX W95080:
DT DT     20-MAY-1999 (first entry)
XX DE
XX GST-HD fusion protein GST-HDSIDECPBio.
KW KW      Fusion protein; amyloidiogenic polypeptide; amyloid-like fibril; scrapie;
KW protein aggregate; Alzheimer's disease; CAG-repeat expansion; spinal;
KW Huntington's disease; bulbar muscular atrophy; spinocerebellar ataxia;
KW dentatorubral pallidoluysian atrophy; Creutzfeldt-Jakob disease; enzyme.
KW GST-HP; HD.
XX OS
OS Synthetic.
XX OS Homo sapiens.
XX FT
FT Key Location/Qualifiers
FT Misc-difference 1
FT /note= "this residue is connected to a GST protein
XX which is not indicated in the sequence"
FN FN      W09906545-A2.
CD CD      11-FEB-1999.
```

